



APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO GEN-007ACP	SERIAL NO. 09/939011
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT Benn, James et al.	GROUP 1645
			FILING DATE August 24, 2001	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/	11	3,591,493	07/71	Zeineh	210	22	
	12	5,672,319	09/97	Eisum	422	82.02	
	13	5,733,442	03/98	Shukla	210	94	
	14	US 2002/0106787 A1	08/02	Benn	435	303.1	
	15	09/561,764	4/28/00	Cahill, et al.	435		
	16	09/422,677	10/21/99	Toth	422	99	
/	17	10/061,961	2/1/02	Smith			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
/	18	EP 0 434 149 A2, A3	06/91	EPO				
/	19	DE 100 05 024 A1	08/01	Germany			Abstract Only	

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Examiner	Date Considered		
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APPLICANT FACSIMILE OF FORM PTO-1449
REV 7-80

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Sheet 1 of 8

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BENN, James et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	A1	3,915,652	10/75	Natelson	23	259	
	A2	4,458,066	07/84	Caruthers et al.	536	27	
	A3	4,500,707	02/85	Caruthers et al.	536	27	
	A4	4,650,750	03/87	Giese	435	7	
	A5	4,683,195	07/87	Mullis et al.	435	6	
	A6	4,769,216	09/88	Chandler et al.	422	58	
	A7	5,030,555	07/91	Clemmons	435	5	
	A8	5,188,963	02/93	Stapleton	435	299	
	A9	5,230,866	07/93	Shartle et al.	422	103	
	A10	5,352,609	10/94	Boquet	435	270	
	A11	5,391,480	02/95	Davis et al.	435	6	
	A12	5,449,064	09/95	Hogan et al.	204	180.1	
	A13	5,516,931	05/96	Giese et al.	560	59	
	A14	5,602,273	02/97	Giese et al.	560	60	
	A15	5,604,104	02/97	Giese et al.	435	7.1	
	A16	5,610,020	03/97	Giese et al.	435	7.1	
	A17	5,679,310	10/97	Manns	422	102	
	A18	5,785,926	07/98	Seubert et al.	422	100	
	A19	5,840,573	11/98	Fields	435	287.2	
	A20	5,856,174	01/99	Lipshutz et al.	435	286.5	
	A21	5,888,819	03/99	Goelet et al.	435	5	
	A22	5,985,651	11/99	Hunnicke-Smith	435	285.1	
	A23	6,004,744	12/99	Goelet et al.	435	5	

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							Yes	NO
1	A24	DE 199 50 385 A1	08/00	Germany			Abstract Only	
	A25	EP 616218 A1	09/94	EPO				
	A26	EP 697242 A1	02/96	EPO				
	A27	EP 805350 A1	11/97	EPO				
	A28	EP 903176 A2, A3	03/99	EPO				
	A29	JP 07-203965 A	08/95	Japan			Abstract Only	
2	A30	JP 62-155090 A	07/87	Japan			Abstract Only	
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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

C1	Carrilho, E. <i>et al.</i> , (1997). "Factors to be considered for robust high-throughput automated DNA sequencing using a multiple-capillary array instrument." In <i>Progress in Biomedical Optics</i> , Cohn, G.E. and Soper, S.A. eds., B. L. Proc. SPIE 2985A, 4-18		
C2	Cline, J. <i>et al.</i> (1996). "PCR fidelity of <i>Pfu</i> DNA polymerase and other thermostable DNA polymerases." <i>Nucleic Acids Res.</i> 24(18): 3546-51		
C3	Dovich, N. J. (1997). "DNA sequencing by capillary electrophoresis." <i>Electrophoresis.</i> 18: 2393-2399		
C4	Drake, J. W. (1969). "Genetic control of mutation rates in bacteriophage T4." <i>Nature.</i> 221(5186): 1128-32		
C5	Dubiley, S. <i>et al.</i> (1997). "Fractionation, phosphorylation and ligation on oligonucleotide microchips to enhance sequencing by hybridization." <i>Nucleic Acid Res.</i> 25(12): 2259-65		
C6	Egholm, M. <i>et al.</i> (1993). "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules." <i>Nature.</i> 365: 566-68		
C7	Eichelbaum, M. <i>et al.</i> (1996). "Influence of pharmacogenetics on drug disposition and response." <i>Clin Exp Pharmacol Physiol.</i> 23(10-11): 983-5		
C8	Evensen, H. T. <i>et al.</i> (1998). "Automated fluid mixing in glass capillaries." <i>Rev. Sci. Instrum.</i> , 69(2): 519-526		
C9	Ewing, B. L. <i>et al.</i> (1998). "Base-calling automated sequencer traces using <i>Phred</i> . I. Accuracy assessment." <i>Genome Res.</i> 8(3): 175-85		
C10	Ewing, B. <i>et al.</i> (1998). "Base-calling of automated sequencer traces using <i>Phred</i> . II. Error probabilities." <i>Genome Res.</i> 8(3): 186-194		
C11	Fei, Z. <i>et al.</i> (1998). "MALDI-TOF mass spectrometric typing of single nucleotide polymorphisms with mass-tagged ddNTPs." <i>Nucleic Acids Res.</i> 26(11):2827-8		
C12	Fung, E. N. <i>et al.</i> (1995). "High-Speed DNA Sequencing by Using Mixed Poly(ethylene oxide) Solutions in Uncoated Capillary Columns." <i>Anal. Chem.</i> 67(13): 1913-19		
C13	Giese, R. (2000). "Electron-capture mass spectrometry: recent advances." <i>J. Chromatogr. A.</i> 892: 329-346.		
C14	Goldstein, J. A. <i>et al.</i> (1997). "Frequencies of the defective CYP2C19 alleles responsible for the mephenytoin poor metabolizer phenotype in various Oriental, Caucasian, Saudi Arabian and American black populations." <i>Pharmacogenetics</i> 7(1): 59-64		
C15	Gordon, D. <i>et al.</i> (1998). "Consed: a graphical tool for sequence finishing." <i>Genome Res.</i> 8(3): 195-202		
C16	Hacia, J. G. <i>et al.</i> (1996). "Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two-colour fluorescence analysis." <i>Nat. Genet.</i> 14:441-447		
C17	Hacia, J. G. <i>et al.</i> (1998). "Applications of DNA chips for genomic analysis." <i>Mol. Psychiatry</i> 3(6): 483-92		
C18	Hacia, J. G. <i>et al.</i> (1998). "Evolutionary sequence comparisons using high-density oligonucleotide arrays." <i>Nat. Genet.</i> 18(2): 155-8		
Examiner	<i>M</i>	Date Considered	June 03
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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	C1	Carrilho, E. et al. (1997). "Factors to be considered for robust high-throughput automated DNA sequencing using a multiple-capillary array instrument." In <i>Progress in Biomedical Optics</i> , Cohn, G.E. and Soper, S.A. eds., B. L. Proc. SPIE 2985A, 4-18
	C2	Cline, J. et al. (1996). "PCR fidelity of <i>Pfu</i> DNA polymerase and other thermostable DNA polymerases." <i>Nucleic Acids Res.</i> 24(18): 3546-51
	C3	Dovich, N. J. (1997). "DNA sequencing by capillary electrophoresis." <i>Electrophoresis.</i> 18: 2393-2399
	C4	Drake, J. W. (1969). "Genetic control of mutation rates in bacteriophage T4." <i>Nature.</i> 221(5186): 1128-32
	C5	Dubiley, S. et al. (1997). "Fractionation, phosphorylation and ligation on oligonucleotide microchips to enhance sequencing by hybridization." <i>Nucleic Acid Res.</i> 25(12): 2259-65
	C6	Egholm, M. et al. (1993). "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules." <i>Nature.</i> 365: 566-68
	C7	Eichelbaum, M. et al. (1996). "Influence of pharmacogenetics on drug disposition and response." <i>Clin Exp Pharmacol Physiol.</i> 23(10-11): 983-5
	C8	Evensen, H. T. et al. (1998). "Automated fluid mixing in glass capillaries." <i>Rev. Sci. Instrum.</i> , 69(2): 519-526
	C9	Ewing, B. L. et al. (1998). "Base-calling automated sequencer traces using Phred. I. Accuracy assessment." <i>Genome Res.</i> 8(3): 175-85
	C10	Ewing, B. et al. (1998). "Base-calling of automated sequencer traces using Phred. II. Error probabilities." <i>Genome Res.</i> 8(3): 186-194
	C11	Fei, Z. et al. (1998). "MALDI-TOF mass spectrometric typing of single nucleotide polymorphisms with mass-tagged ddNTPs." <i>Nucleic Acids Res.</i> 26(11):2827-8
	C12	Fung, E. N. et al. (1995). "High-Speed DNA Sequencing by Using Mixed Poly(ethylene oxide) Solutions in Uncoated Capillary Columns." <i>Anal. Chem.</i> 67(13): 1913-19
	C13	Giese, R. (2000). "Electron-capture mass spectrometry: recent advances." <i>J. Chromatogr. A.</i> 892: 329-346.
	C14	Goldstein, J. A. et al. (1997). "Frequencies of the defective CYP2C19 alleles responsible for the mephenytoin poor metabolizer phenotype in various Oriental, Caucasian, Saudi Arabian and American black populations." <i>Pharmacogenetics</i> 7(1): 59-64
	C15	Gordon, D. et al. (1998). "Consed: a graphical tool for sequence finishing." <i>Genome Res.</i> 8(3): 195-202
	C16	Hacia, J. G. et al. (1996). "Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two-colour fluorescence analysis." <i>Nat. Genet.</i> 14:441-447
	C17	Hacia, J. G. et al. (1998). "Applications of DNA chips for genomic analysis." <i>Mol. Psychiatry</i> 3(6): 483-92
	C18	Hacia, J. G. et al. (1998). "Evolutionary sequence comparisons using high-density oligonucleotide arrays." <i>Nat. Genet.</i> 18(2): 155-8
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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT BENN, James <i>et al.</i>	
		FILED DATE August 24, 2001	GROUP 1645

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>h</i>	D1	Hacia, J. G. <i>et al.</i> (1999). "Determination of ancestral alleles for human single-nucleotide polymorphisms using high-density oligonucleotide arrays." <i>Nat. Genet.</i> 22(2):164-7
	D2	Haff L. <i>et al.</i> , "A high-performance system for automation of the polymerase chain reaction." <i>BioTechniques</i> . 10:102-103, 106-12, (1991)
	D3	Harris, J. R. <i>et al.</i> (1992). "Breast cancer (first of three parts)." <i>N. Engl. J. Med.</i> 327(5): 319-28
	D4	Hayashi, S. <i>et al.</i> (1992). "High susceptibility to lung cancer analyzed in terms of combined genotypes of P450IA1 and Mu-class glutathione S-transferase genes." <i>Jpn. J. Cancer Res.</i> 83(8): 866-70
	D5	Hunicke-Smith, S.P. (1997). "PCR and cycle sequencing reactions: a new device and engineering model," Ph.D. Dissertation, Stanford Univ., Stanford, CA, USA.
	D6	Hwang, D. <i>et al.</i> (1998). "Expression of cyclooxygenase-1 and cyclooxygenase-2 in human breast cancer." <i>J. Natl. Cancer Inst.</i> 90(6): 455-60
	D7	Ju, J. <i>et al.</i> (1995). "Fluorescence energy transfer dye-labeled primers for DNA sequencing and analysis." <i>PNAS USA</i> . 92(10): 4347-51
	D8	Karger, A. E. (1996). "Separation of DNA sequencing fragments using an automated capillary electrophoresis instrument." <i>Electrophoresis</i> . 17(1): 144-51
	D9	Kaye, S. B. (1998). "Multidrug resistance: clinical relevance in solid tumours and strategies for circumvention." <i>Curr. Opin. Oncol.</i> 10 Suppl 1: S15-S19
	D10	Kelley, D. J. <i>et al.</i> (1997). "Benzo[a]pyrene up-regulates cyclooxygenase-2 gene expression in oral epithelial cells." <i>Carcinogenesis</i> . 18(4): 795-9
	D11	Korch, C. <i>et al.</i> (1999). "Improved DNA sequencing accuracy and detection of heterozygous alleles using manganese citrate and different fluorescent dye terminators." <i>Genome Res.</i> 9(6): 588-95
	D12	Kwok, P-Y. <i>et al.</i> (1992). "Automatable screening of yeast artificial-chromosome libraries based on the oligonucleotide-ligation assay." <i>Genomics</i> . 13(4): 935-41
	D13	Lamoree, M. H. <i>et al.</i> (1998). "Application of microdialysis for on-line coupling of capillary isoelectric focusing with electrospray mass spectrometry on a magnetic sector instrument." <i>J. Mass Spectrometry</i> . 33: 453-460 (1998)
	D14	Lamoree, M. H. <i>et al.</i> (1997). "Use of microdialysis for the on-line coupling of capillary isoelectric focusing with electrospray mass spectrometry." <i>J. Chromatography A</i> . 777:31-39
	D15	Lench, N. <i>et al.</i> (1988). "Simple non-invasive method to obtain DNA for gene analysis." <i>Lancet</i> . 1(8599):1356-8
	D16	Linder, M. W. <i>et al.</i> (1997). "Pharmacogenetics: a laboratory tool for optimizing therapeutic efficiency." <i>Clin. Chem.</i> 43(2): 254-66
<i>h</i>	D17	Liu, C. <i>et al.</i> (1998). "On-line dual microdialysis with ESI-MS for direct analysis of complex biological samples and microorganism lysates." <i>Anal. Chem.</i> 70(9): 1797-801
Examiner <i>h</i>		Date Considered <i>June 03</i>
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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

E1	Liu, C. et al. (1997). "Improving the microdialysis procedure for electrospray ionization mass spectrometry of biological samples." <i>J. Mass Spectrometry</i> . 32:425-431
E2	Longley, M. et al. (1999). "Isolation and mapping of the first ruminant multidrug resistance genes." <i>Anim. Genet.</i> 30(3): 207-10
E3	Lutz, E. S. M. et al. (1999). "On-line microdialysis-electrospray mass spectrometry for automated desalting of small-volume peptide samples." <i>Chromatographia Supp. I</i> . 49:S28-S34
E4	Majors, R.E. (1995). "Sample preparation perspectives: The use of membranes in sample preparation," <i>LC-GC</i> 13(5): 364-369, 371-373
E5	Marez, D. et al. (1997). "Polymorphism of the cytochrome P450 CYP2D6 gene in a European population: characterization of 48 mutations and 53 alleles, their frequencies and evolution." <i>Pharmacogenetics</i> 7(3): 193-202
E6	Marsh, M. et al. (1997). "High-throughput DNA sequencing on a capillary array electrophoresis system." <i>J. Capillary Electrophor.</i> 4(2): 83-89
E7	Masood, E. (1999). "... as consortium plans free SNP map of human genome." <i>Nature</i> . 398(6728): 545-6
E8	Masson, E. et al. (1997). "Pharmacokinetic optimisation of cancer chemotherapy: effect on outcomes." <i>Clin. Pharmacokinet.</i> 32(4): 324-43
E9	Mattila, P. et al. (1991). "Fidelity of DNA synthesis by the <i>Thermococcus litoralis</i> DNA polymerase—an extremely heat stable enzyme with proofreading activity." <i>Nucleic Acids Res.</i> 19(18):4967-73.
E10	Maxam, A. M. et al. (1977). "A new method for sequencing DNA." <i>PNAS USA</i> . 74: 560-4
E11	McGlynn, K. A. et al. (1995). "Susceptibility to hepatocellular carcinoma is associated with genetic variation in the enzymatic detoxification of aflatoxin B ₁ ." <i>PNAS USA</i> . 92(6): 2384-7
E12	Mickley, L. A. et al. (1998). "Genetic polymorphism in <i>MDR-1</i> : a tool for examining allelic expression in normal cells, unselected and drug-selected cell lines, and human tumors." <i>Blood</i> . 91(5): 1749-56
E13	Nakachi, K. et al. (1993). "Polymorphisms of the <i>CYP1A1</i> and glutathione S-transferase genes associated with susceptibility to lung cancer in relation to cigarette dose in a Japanese population." <i>Cancer Res.</i> 53(13): 2994-99
E14	Nebert, D. W. et al. (1999). "Genetic epidemiology of environmental toxicity and cancer susceptibility: human allelic polymorphisms in drug-metabolizing enzyme genes, their functional importance, and nomenclature issues." <i>Drug Metab. Rev.</i> 31(2): 467-487
E15	Nickerson, D. A. et al. (1997). "PolyPhred: automating the detection and genotyping of single nucleotide substitutions using fluorescence-based resequencing." <i>Nucleic Acids Res.</i> 25(14): 2745-51
E16	Nielsen, P.E. et al. (1991). "Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide." <i>Science</i> 254: 1497-1500
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F1	Parinov, S. <i>et al.</i> (1996). "DNA sequencing by hybridization to microchip octa-and decanucleotides extended by stacked pentanucleotides," <i>Nucleic Acid Res.</i> 24(15): 2998-3004
F2	Raunio, H. <i>et al.</i> (1995). "Diagnosis of polymorphisms in carcinogen-activating and inactivating enzymes and cancer susceptibility -- a review." <i>Gene</i> 159(1): 113-21
F3	Rebbeck, T. R. <i>et al.</i> (1998). "Modification of clinical presentation of prostate tumors by a novel genetic variant in CYP3A4." <i>J. Natl. Cancer Inst.</i> 90(16): 1225-9
F4	Rieder, M. J. <i>et al.</i> (1998). "Automating the identification of DNA variations using quality-based fluorescence re-sequencing: analysis of the human mitochondrial genome." <i>Nucleic Acids Res.</i> 26(4): 967-73
F5	Romkes, M. <i>et al.</i> (1996). "Association of low CYP3A activity with p53 mutation and CYP2D6 activity with Rb mutation in human bladder cancer." <i>Carcinogenesis</i> . 17(5): 1057-62
F6	Rose, D. J. "Characterization of antisense binding properties of peptide nucleic acids by capillary gel electrophoresis." <i>Anal. Chem.</i> 65: 3545-49 (1993).
F7	Ruiz-Martinez, M. C. <i>et al.</i> (1998). "A sample purification method for rugged and high-performance DNA sequencing by capillary electrophoresis using replaceable polymer solutions: A. Development of the cleanup protocol." <i>Anal. Chem.</i> 70(8): 1516-27
F8	Salas-Solano, O. <i>et al.</i> (1998). "A sample purification method for rugged and high-performance DNA sequencing by capillary electrophoresis using replaceable polymer solutions. B. Quantitative determination of the role of sample matrix components on sequencing analysis." <i>Anal. Chem.</i> 70(8): 1528-35
F9	Salas-Solano, O. <i>et al.</i> (1998). "Routine DNA sequencing of 1000 bases in less than one hour by capillary electrophoresis with replaceable linear polyacrylamide solutions." <i>Anal. Chem.</i> 70(19): 3996-4003
F10	Seeger, C. <i>et al.</i> (1997). "PNA-mediated purification of PCR amplifiable human genomic DNA from whole blood." <i>BioTechniques</i> 23: 512-17
F11	Shields, P. G. (1993). "Inherited factors and environmental exposures in cancer risk." <i>J. Occup. Med.</i> 35(1): 34-41
F12	Smith, D. R. <i>et al.</i> (1997). "Complete genome sequence of <i>Methanobacterium thermoautotrophicum</i> ΔH: functional analysis and comparative genomics." <i>J. Bact.</i> 179(22): 7135-55
F13	Subbaramaiah, K., <i>et al.</i> (1996). "Transcription of cyclooxygenase-2 is enhanced in transformed mammary epithelial cells." <i>Cancer Res.</i> 56(19): 4424-9
F14	Swerdlow, H. <i>et al.</i> (1997). "Fully automated DNA reaction and analysis in a fluidic capillary instrument." <i>Anal. Chem.</i> 69(5): 848-55
F15	Szakacs, G. <i>et al.</i> (1998). "Diagnostics of multidrug resistance in cancer." <i>Pathol. Oncol. Res.</i> 4(4): 251-57
F16	Tan, H. <i>et al.</i> (1997). "Integrated on-line system for DNA sequencing by capillary electrophoresis: from template to called bases." <i>Analytical Chem.</i> 69: 664-674
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G1	Tan, S. <i>et al.</i> (1992). "Development of a sensitive reverse transcriptase PCR assay, RT-PCR, utilizing rapid cycle times." <i>PCR Methods Appl.</i> 2(2): 137-43
G2	Wang, J. <i>et al.</i> (1996). "Peptide nucleic acid probes for sequence-specific DNA biosensors." <i>J. Amer. Chem. Soc.</i> 118: 7667-70
G3	Wang, K. <i>et al.</i> (1995). "A microtiter plate-based high-throughput DNA purification method." <i>Anal. Biochem.</i> 226: 85-90
G4	Wang, P. <i>et al.</i> (2000). "Laser-induced electron capture mass spectrometry." <i>Anal. Chem.</i> 72(4): 772-6
G5	Wang, Z. <i>et al.</i> (1998). "N-hydroxysuccinimide ester labeling 5'-aminoalkyl DNA oligomers: reaction conditions and purification." <i>J. Chromatogr. A.</i> 806: 93-95
G6	Watson, P. <i>et al.</i> (1998). "Colorectal carcinoma survival among hereditary nonpolyposis colorectal carcinoma family members." <i>Cancer.</i> 83(2): 259-66
G7	Weiler, J. <i>et al.</i> (1997). "Hybridisation based DNA screening on peptide nucleic acid (PNA) oligomer arrays." <i>Nucleic Acid Res.</i> 25: 2792-99
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G9	Wittwer, Carl T. <i>et al.</i> (1991). "Rapid Cycle DNA Amplification: Time and Temperature Optimization." <i>BioTechniques</i> 10: 76-83
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G16	Millipore Corporation (2000). "MultiScreen™ ₃₈₄ -SEQ Plates User Guide."
Examiner	<i>m</i>
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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		BENN, James <i>et al.</i>	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	H1	4,709,016	11/87	Giese	530	389	
	H2	4,832,851	05/89	Bowers <i>et al.</i>	210	650	
	H3	4,902,481	02/90	Clark <i>et al.</i>	422	101	
	H4	5,360,819	11/94	Giese	514	538	
	H5	5,560,811	10/96	Briggs <i>et al.</i>	204	451	
	H6	5,650,270	07/97	Giese <i>et al.</i>	435	6	
<i>M</i>	H7	5,856,100	01/99	Hayashizaki	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>M</i>	H8	EP 0 431905 A1, B1	06/91	EPO				
	H9	WO 87/07645 A1	12/87	WO				
	H10	WO 92/13963 A1	08/92	WO				
	H11	WO 00/66723 A1	11/00	WO				
<i>M</i>	H12	WO 01/19482 A2, A3	03/01	WO				

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